

## FOREST EXCISE TAX -- ROAD SUMMARY SHEET

Region: SE

Timber Sale Name: Snap Ridge

Agreement Number: 30-076125

### Excise Tax Applicable Activities

Construction: 640 linear feet  
*Road to be constructed (optional and required) but not abandoned*

Reconstruction: 0 linear feet  
*Road to be reconstructed (optional and required) but not abandoned*

Abandonment: 0 linear feet  
*Abandonment of existing roads not reconstructed under the contract*

Deactivation: 0 linear feet  
*Road to be made undriveable but not officially abandoned.*

Pre-Haul Maintenance: 0 linear feet  
*Existing road to receive maintenance work (specifically required by the contract) prior to haul*

### Excise Tax Exempt Activities

Temporary Optional Construction: 0 linear feet  
*Optional roads to be constructed and then abandoned*

Temporary Optional Reconstruction: 0 linear feet  
*Optional roads to be reconstructed and then abandoned*

New Abandonment: 0 linear feet  
*Abandonment of roads constructed or reconstructed under the contract*

All parties must make their own assessment of the taxable or non-taxable status of any work performed under the timber sale contract. The Department of Revenue bears responsibility for determining forest road excise taxes. The Department of Natural Resources developed this form to help estimate the impact of forest excise taxes. However, the information provided may not precisely calculate the actual amount of taxes due. The Department of Revenue is available for consultation by calling 1.800.548.8829.

(Revised 7/04)

Snap Ridge Timber Sale  
Road Plan Summary  
Application # 30-076125  
Date: 7-28-2004  
Revised: 09-22-2004  
By Robert Travis, PE & Joe Secoges

Required construction: 640 feet

Purchaser maintenance on the following roads:  
B-1500, B-1560, B-1600, B-1800, B-1870, B-1900 (19+50 to 80+00)

Designated maintenance on the following roads:  
B-1000, B-1900 (0+00 to 19+50), B-1910

Bill of Sale & Contract for Forest Products

- Date of road plan 7-28-2004
- Road use authorization (road numbers): B-1000, B-1500, B-1560, B-1600, B-1800, B-1870, B-1900, B-1910
- Roads not ok to be blocked: Ok to block all roads in harvest units
- Current easement (easement # & road number)/ Road use permit information/ conditions

Forest Practice information:

RMAP Number: R270086L

Construct 640 feet of road (required & optional, construction, reconstruction, prehaul)

No road abandonment

Maximum sideslope of construction: 15% on construction/ reconstruction

No temporary roads

Road maintenance 75,606 feet

SEPA information:

Acres of new road =  $15 \text{ ft} * 640 \text{ feet} = 0.2 \text{ acres}$

Plan on closing B-1560 for a total of 1,740 feet of road and B-1870 for a total of 400 feet of road once reforestation is complete (2009?).

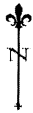
Haul route:

B-1000 to Northwest Lake County road to Highway 141 to Highway 141 Alternate to Highway 14

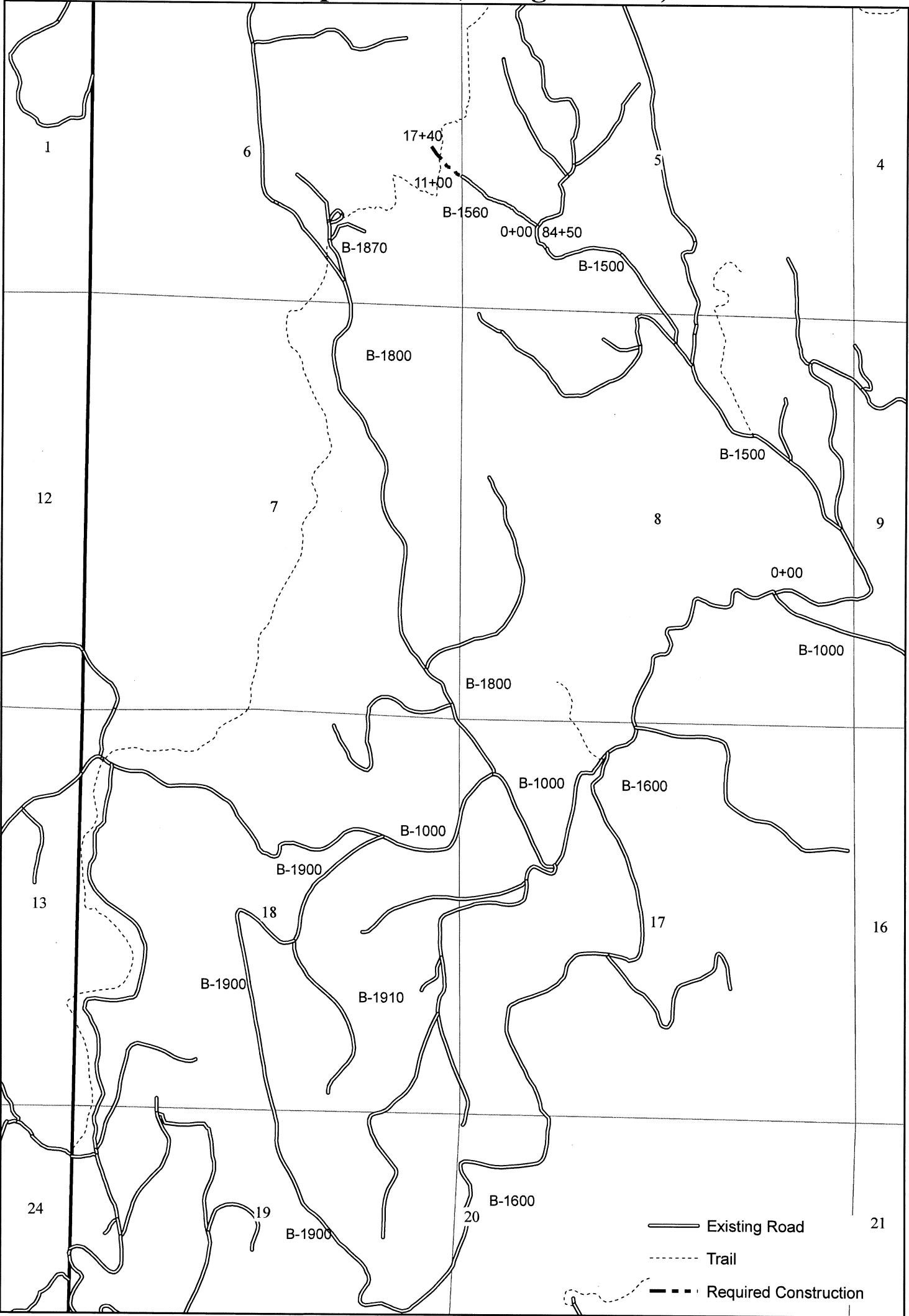
ROAD PLAN MAP

Sale Name: Snap Ridge  
Agreement Number: 30-076125  
Trust(s): Common School

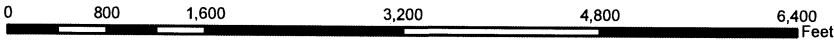
Region: Southeast  
County(s): Klickitat



Township04 North, Range10 East, W.M.



Scale 1:18,000



STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES  
DOUG SUTHERLAND, COMMISSIONER OF PUBLIC LANDS

SNAP RIDGE TIMBER SALE ROAD PLAN  
SECTIONS 5,6,8 & 9, TOWNSHIP 4 NORTH, RANGE 10 EAST, W.M.  
Klickitat County

AGREEMENT NO.: 30-076125                      DATE: 07/28/2004

SECTION 0 - SCOPE OF PROJECT

This project includes but is not limited to construction including:

- clearing;
- grubbing;
- right of way debris disposal;
- excavation and/or embankment to subgrade;
- construction of rolling dips;
- landing construction.

SECTION 1: GENERAL CLAUSES

SECTION 1.1: GENERAL: GENERAL CLAUSES

- 1.1-1  
Clauses in this plan apply to all construction, reconstruction, or pre-haul maintenance including landings unless otherwise noted.
- 1.1-2  
Construction, or reconstruction, or pre-haul maintenance of the following road(s) is required. All roads shall be constructed or reconstructed or pre-haul maintained on the State's location and in accordance with this Road Plan.
- | <u>Road</u> | <u>Station</u> | <u>Type</u>  |
|-------------|----------------|--------------|
| B-1560      | 11+00 to 17+40 | Construction |
- 1.1-4  
If the purchaser desires a road location or design change, a revised road plan shall be submitted to the State for consideration.
- 1.1-9  
On this plan quantities are minimum acceptable values. Additional quantities required by the State because of hidden conditions or Purchaser's choice of construction season or techniques shall be at the Purchaser's expense. Hidden conditions include, but are not limited to: solid subsurface rock subsurface springs, saturated ground, and unstable soil.

SECTION 1.2 - GENERAL: CONSTRUCTION CONSTRAINTS

- 1.2-1  
The construction of the following road shall not be permitted between November 1 and April 30 unless authority to do so is granted, in writing, by the Contract Administrator.
- | <u>Road</u> | <u>Station</u> |
|-------------|----------------|
| B-1560      | 11+00 to 17+40 |
- 1.2-2  
Purchaser shall not use roads constructed, reconstructed or maintained under this Road Plan for hauling, other than timber cut on the right of way, without written approval from

the Contract Administrator.

SECTION 1.2.1 - GENERAL: CONSTRUCTION CONSTRAINTS:  
CONSTRUCTION SEQUENCE

1.2.1-1

Pioneering shall not extend past construction that will be completed during the current construction season. Drainage shall be provided on all uncompleted construction as approved, in writing, by the Contract Administrator.

Clearing and grubbing shall be completed prior to starting excavation and embankment.

Rolling dips shall be installed in completed subgrade as construction progresses.

Subgrade, ditches, culvert and rolling dips installation shall be completed and are subject to written approval by the Contract Administrator prior to rock application.

SECTION 1.3 - GENERAL: HAULING CONSTRAINTS

1.3-2

Timber haul shall not be permitted between Nov 1 – Apr 30 unless authorized, in writing, by the Contract Administrator.

SECTION 1.5 - GENERAL: ROAD MAINTENANCE

1.5-1

Maintenance on the following roads shall be performed in accordance with Purchaser Road Maintenance Specifications.

<u>Road</u>	<u>Stations</u>
B-1500	0+00 to 84+50
B-1560	0+00 to 17+40
B-1600	0+00 to 100+00
B-1800	0+00 to 64+00
B-1870	0+00 to 4+00
B-1900	19+50 to 80+00

1.5-2

Per Clause C-60, maintenance on the following roads shall be preformed by designated maintainer. Designated maintainer shall be selected by the Contract Administrator.

<u>Road</u>	<u>Station</u>
B-1000	0+00 to 380+16
B-1900	0+00 to 19+50
B-1910	0+00 to 20+00

1.5-3

Snowplowing shall not be permitted unless authorized, in writing, by the Contract Administrator.

1.5-4

At termination of haul final maintenance shall be performed on the following roads. At minimum, final maintenance shall consist of blading the road with a motor grader, removing berms, crowning or outsloping the road as specified in the Typical Section Sheet and/or Clause 6.1-1, reshaping rolling dips and/or water bars to specification, pulling ditches and cleaning culvert inlets and outlets. The finished road surface shall drain freely and shall be smooth, firm and free of chuckholes.

<u>Road</u>	<u>Stations</u>
B-1500	0+00 to 84+50
B-1560	0+00 to 17+40
B-1600	0+00 to 100+00
B-1800	0+00 to 64+00
B-1870	0+00 to 4+00
B-1900	19+50 to 80+00

## SECTION 2 - CLEARING

### SECTION 2.1 - R/W TIMBER

#### 2.1-1

Fell all vegetative material larger than 2 inches dbh or over 4 feet high between the marked right-of-way boundaries or if not marked in the field, between clearing limits specified on the Typical Section Sheet.

## SECTION 3 - GRUBBING

### SECTION 3.1- GRUBBING: GENERAL

#### 3.1-1

All stumps shall be removed that fall between grubbing limits shown on the Typical Section Sheet. Those with undercut roots shall be removed.

#### 3.1-2

Grubbing limits are defined as the entire area between the external limits shown on the Typical Section Sheet.

## SECTION 4 - DEBRIS DISPOSAL AND REMOVAL

### SECTION 4.1 - DEBRIS DISPOSAL AND REMOVAL: GENERAL

#### 4.1-1

Right-of-way debris is defined as all non-merchantable vegetative material larger than one cubic foot in volume, within the grubbing limits.

### SECTION 4.2 - DEBRIS DISPOSAL AND REMOVAL: PLACEMENT

#### 4.2-3

Right-of-way debris shall be scattered outside the grubbing limits on the downhill side of the road.

## SECTION 5 - EXCAVATION

### SECTION 5.1 - EXCAVATION: GENERAL

#### 5.1-1

Unless controlled by construction stakes or specific design sheets herein, roads shall be constructed in accordance with dimensions shown on the Typical Section Sheet.

#### 5.1-2

Purchaser shall not bury merchantable material.

5.1-3 Road grade and alignment shall conform to the State's marked location and drawings. Grade and alignment shall have smooth continuity without abrupt changes in direction. Maximum grades are 18 percent favorable and 15 percent adverse or as specified on drawings. Minimum curve radius is 70 feet.

5.1-4 Except as designated on the curve widening list, extra widening on the inside of curves shall be as indicated below.

2 feet extra	80 to 100 foot radius curves.
4 feet extra	50 to 79 foot radius curves.

5.1-7 Roads shall be constructed or reconstructed to the dimensions shown on the Typical Section Sheet, within the tolerance listed below. Tolerance classes for each road are listed on the Typical Section Sheet.

Tolerance Class	A	B	C
Road Width (feet)	+1.5	+1.5	+2.0
Subgrade elevation (feet+/-)	0.5	1.0	2.0
Centerline alignment (feet lt./rt.)	1.0	1.5	3.0

5.1-8 Excavation slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Excavation Slope Ratio</u>
Common Earth (on side slopes of 55%).....	1:1
Common Earth (55% to 70% sideslopes).....	¾:1
Common Earth (on slopes over 70%).....	½:1
Fractured or loose rock.....	½:1
Hardpan or Solid rock.....	¼:1

5.1-9 Excavation and embankment slopes shall be constructed to a uniform line and left rough for easier revegetation.

5.1-10 Except as construction staked or designed. Embankments shall be widened as follows:

<u>Height at Centerline</u>	<u>Subgrade Widening</u>
Less than 6 feet.....	2 feet
6 feet or over.....	4 feet

5.1-11 Embankment slopes shall be constructed no steeper than shown on the following table:

<u>Material Type</u>	<u>Embankment Slope Ratio</u>
Common Earth and rounded gravel	1-1/2:1
Angular rock	1-1/4:1
Sandy soil	2:1

5.1-12 Organic material shall be excluded from embankment.

5.1-14 Waste material may be deposited adjacent to the road prism on side slopes up to 55 percent if the waste material is compacted and more than 100 feet away from live streams. On side slopes of 55 percent or more, all excavation shall be end hauled or pushed to designated embankment sites. All waste embankments shall be compacted in

- horizontal layers not exceeding 2 feet.
- 5.1-21 Waste material shall not be deposited within 100 feet of a cross drain culvert installation.

SECTION 5.2 - EXCAVATION: PIONEER ROADS

- 5.2-1 Road pioneering operations shall not undercut the final cut slope, deposit excavated material outside the clearing limits or restrict drainage.

SECTION 5.3 - EXCAVATION: COMPACTION

- 5.3-1 All embankment and waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over the entire width of the lifts. Sidehill embankments too narrow to accommodate excavation equipment may be placed by end dumping or side casting until sufficiently wide to support the equipment.

SECTION 5.4 - EXCAVATION: SEDIMENTATION

- 5.4-1 Sediment bearing runoff shall not be permitted to enter into streams.

SECTION 5.5 - EXCAVATION: SUBGRADE COMPACTION

- 5.5-1 Finished subgrade shall be shaped as specified in Clause 6.1-1 and as shown on the Typical Section Sheet. Surface shall be graded and compacted to a uniform, firm, rut-free surface to ensure runoff in an even, unconcentrated manner.

SECTION 6 - DRAINAGE

SECTION 6.1 - DRAINAGE: SURFACE DRAINAGE

- 6.1-1 On the following roads, surfaces shall be shaped to augment the escape of surface runoff.

<u>Road</u>	<u>Stations</u>	<u>Shape of Road Surface</u>
B-1560	11+00 to 17+40	Outslope 4 inch 10 ft

- 6.1-2 Berms shall be removed from road shoulders to permit escape of runoff.

SECTION 6.7: DRAINAGE: ROLLING DIPS

- 6.7-1 On the following roads rolling dip shall be constructed in accordance with the Rolling Dip Detail sheet. **ROLLING DIP SHALL BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE CONTINUOUSLY MAINTAINED IN AN OPERABLE CONDITION.** Rolling dip shall be installed with a crawler tractor. Use of other equipment shall not be permitted without prior written approval of the Contract Administrator.

<u>Road</u>	<u>Stations</u>
B-1560	14+55



SECTION 8 - STRUCTURES

SECTION 8.1 - STRUCTURES: SIGNS

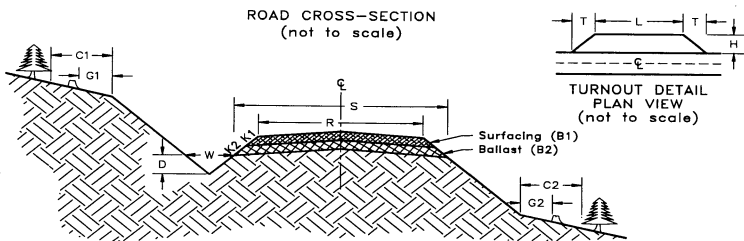
- 8.1-1
- The purchaser shall be responsible for the purchase and installation of the following road signs. Signs shall comply with the all Washington State Department of Labor & Industries regulations.
- 8.1-2
- The Purchaser shall be responsible for the purchase and installation of the following road signs. Signs shall comply with the U.S. Department of Transportation, Federal Highway Administration's "Standard Highway Signs" manual.

<u>Road</u>	<u>Station</u>	<u>Sign</u>
B-1000	Jct with Nestor Peak Rd. & ¼ mile west of B-1900	Log Trucks Ahead
2 signs total		

SECTION 8.5 - STRUCTURES: CATTLE GUARDS/GATES

- 8.5-5
- On the following road, Purchaser shall keep gates closed except for during periods of hauling.

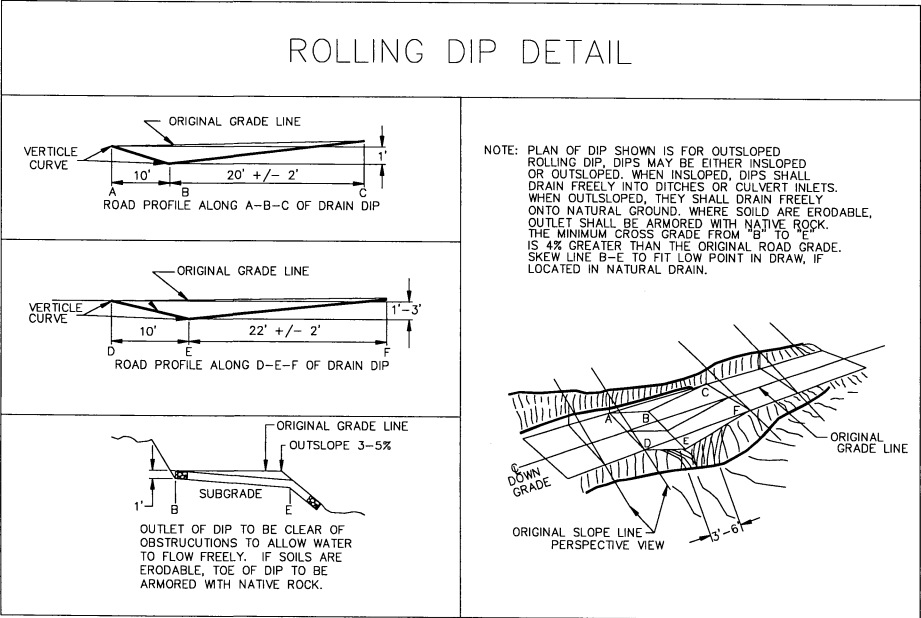
<u>Road</u>	<u>Stations</u>
B-1000	1+00



TYPICAL SECTION SHEET

NOTE: GRUBBING LIMITS FOR PRE-HAUL OR RECONSTRUCTION ARE 1' BEYOND EDGE OF ROAD OR BACK OF DITCH. CLEARING LIMITS POSTED WITH RIGHT OF WAY TAGS AND YELLOW FLAGGING. IF NOT POSTED, 5' BEYOND TOP OF CUT OR TOE OF FILL.

ROAD	CONSTRUCTION/ RECONSTRUCTION/ PRE-HAUL	FROM STATION	TO STATION	TOLERANCE CLASS	SUBGRADE WIDTH S	CROWN INCHES @ CENTERLINE	OUTSLOPE INCHES IN 10 FEET	ROAD WIDTH R	DITCH WIDTH DEPTH W D	GRUBBING LIMITS G1 G2	CLEARING LIMITS C1 C2	TAPER T	TURNOUT LENGTH L	WIDTH W	COMMENTS
B-1560	Construction	11+00	17+40	C	12 ft		4 inch	12 ft		SEE NOTE	5 feet				



STATE OF WASHINGTON  
DEPARTMENT OF NATURAL RESOURCES

FOREST ACCESS ROAD  
MAINTENANCE SPECIFICATIONS

A. Cuts and Fills

1. Maintain slope lines as constructed. Remove slides from the ditches and roadway. Replace fills to 1 1/2:1 slopes with selected material or as directed. Remove overhanging material from the cut slopes.
2. Material from slides or other sources requiring removal shall not be deposited in streams or at locations where it will erode into streams or water courses.
3. Undesirable slide materials and debris shall not be mixed into the surface material.

B. Surface

1. Grade and shape the road surface, turnouts, and shoulders to the original crown, inslope or outslope as directed to provide suitable traveled surface and surface water runoff in an even, unconcentrated manner.
2. Blading must not undercut the backslope at the bottom of the ditchline or cut into geotextile fabric on the road.
3. If required in writing by the SE Region Engineer, water shall be applied as necessary to abate dust.
4. Desirable surface material shall not be bladed off the roadway.
5. Replace surface material lost or worn away.
6. Remove berms except as directed by the State.
7. Barrel spread soft spots to prevent degradation of geotextile.

C. Drainage

1. Keep ditches and drainage channels at outlets and inlets of culverts clear of obstructions and functioning as intended.
2. Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This must be done even during periods of inactivity.
3. Add stable material at the outlet end of the cross drain culvert as needed to stabilize the soil.
4. Headwalls: maintain to the road shoulder level with material that will resist erosion.
5. Prevent sediment bearing surface runoff from entering live streams.

D. Structures

Repair bridges, culverts, cattle guards, fences, and other road structures to the condition required by the construction specifications.

E. End of Season

Do maintenance work to minimize damage from the elements such as blading to insure correct runoff, ditch, and culvert cleaning and water bars.

F. Debris

Remove fallen timber, limbs, and stumps from the slopes or roadway.